

C11

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```

1  /*
2  *** Copyright 1997,1998 EMC Corporation
3  */
4
5  /*
6  *** Leading % causes program to parse a flag directly thought to the output,
7  *** ie edmlink source.h, thisname. This allows the -h to make a little
8  *** more sense and be properly documented.
9  */
10
11  /*
12  *** dispatch_daemon.x : EMX Dispatch Daemon C/S communication module
13  */
14
15  /*
16  *** Mission Statement: This is an HPOCEN file which defines the RPC interfaces
17  *** between the Dispatch Daemon (which resides on
18  *** the EMX server) and the backup client callers of its
19  *** functions. This defines the RPC level calls that a
20  *** "caller" can make and the "service" will respond to.
21  */
22
23  /*
24  *** Primary Data Action On: This defines the data that will flow over the wire.
25  *** The RPC mechanism will take care of data
26  *** marshalling
27  */
28
29  /*
30  *** Compile-Time Options:
31  *** This actually gets run through HPOCEN not compiled.
32  *** It
33  *** must be run through with the -h flag to create a
34  *** header file. The -h flag creates the client side
35  *** routines, the -l flag to create the client side
36  *** routines, and the -c flag to create the common data
37  *** marshalling routines.
38  */
39
40  /*
41  *** Basic Idea here:
42  *** Define the RPC level interfaces to the Dispatch Daemon
43  *** and all data types that will be passed via RPC.
44  */
45
46  /*
47  *** Constant Definitions
48  */
49
50  /*
51  *** Data Structure Definitions
52  */
53
54  /*
55  *** Data Structure Definitions
56  */
57
58  /*
59  *** structure DD_rpc_objID
60  */
61
62  /*
63  *** int type; /* Object identifier (DD_otype, *) */
64  *** #define DD_otype_INT_INT 1 /* Initialize Input Object */
65  *** #define DD_otype_INT_OUT 2 /* Initialize Output Object */
66  *** long len; /* Length of structure, version number */
67  */
68
69  /*
70  *** struct DD_client_session_id {
71  *** unsigned long high;
72  *** unsigned long low;
73  *** }
74  */
75
76  /*
77  *** const DD_SERVICE_REMOTE_I:
78  *** /* structures for input and output of re_initialize_rpc call: */
79  *** struct DD_initialize_args {
80  *** int service;
81  *** }
82  */
83
84  /*
85  *** dispatch_daemon.x 1
86  */
87
88  /*
89  *** Page 1 of 16
90  */

```

```

/* string hostname */
string username;
unsigned int timeout;
};

const DD_SERVICE_FAILURE_NONREC=4;
const DD_SERVICE_FAILURE_REC=2;
const DD_SERVICE_FAILURE_EXC=1;
const DD_SERVICE_STARTING=1;
const DD_SERVICE_RUNNING=2;
const DD_SERVICE_COMPLETED=4;

struct DD_initialize_result {
    unsigned int status;
    DD_client_session_id service_handle;
};

/* structures for getstatus function */
struct DD_getservicestatus_args {
    int status;
    DD_client_session_id service_handle;
};

struct DD_getservicestatus_result {
    int status;
    opaque handle<128>;
};

/* work item type */
/* These match the througfh for the most part. There are
 * some extras for identifying NOS workitems.
 */
enum PD_BACKUP_TYPE = 0;
enum DD_BACKUP_TYPE = 1;
enum DD_SHARED_DP_PART_BACKUP_TYPE = 2;
enum DD_OFFLINE_DP_TYPE = 3;
enum DD_ONLINE_RICKDOW_TYPE = 4;
enum DD_ONLINE_LISTDOW_TYPE = 5;
enum DD_DOWN_RICKDOW_TYPE = 6;
enum DD_DOWN_LISTDOW_TYPE = 7;
enum DD_DOWN_WRA_TYPE = 8;

/* length of various buffers */
enum DD_RENAME_SIZE = 6;
enum DD_MEDIUM_SIZE = 16;
enum DD_WINDOW_SIZE = 64;
enum DD_TRANSMISSION_SIZE = 64;
enum DD_HOSTNAME_SIZE = 256;
enum DD_CLIENTNAME_SIZE = 256;
enum DD_SERVER_SIZE = 64;
enum DD_MAX_STRING_SIZE = 256; /* must be the length of the longest buffer */

/* defines for operation_type */
enum DD_OPERATION_TYPE = 1;
enum DD_RESTORE_TYPE = 2;
enum DD_OTHER_TYPE = 16;

/* work item structure */
struct WIFProgress {
    unsigned long time_started;
    unsigned long curr_time;
    unsigned long total_bytes_sofar;
    unsigned long total_files;
};

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unsigned long      total_bytes;

unsigned long      curr_bytessofar;
unsigned long      curr_time_slice;
unsigned long      curr_files;

unsigned long      total_files_expected;
unsigned long      total_nb_expected;

int               operation_type;
int               operation_id;
int               status;

struct WIPROgress
{
    char          vi_name[VI_NAME_SIZE];
    char          ctrl_name[CTRL_NAME_SIZE];
    char          tralisee_name[TRALISEE_NAME_SIZE];
    char          template_name[TEMPLATE_NAME_SIZE];
    char          client_name[CLIENT_NAME_SIZE];
    char          server_name[SERVER_NAME_SIZE];
    char          media_type[MEDIA_NAME_SIZE];
    char          userid[USER_NAME_SIZE];

    level;
    type;

}

/* SUMMARY structure */
struct EDMPROgress {
    unsigned long      time_started;
    unsigned long      curr_time;

    unsigned long      total_bytessofar;
    unsigned long      total_files;
    unsigned long      local_bytessofar;
    unsigned long      curr_time_alloc;
    unsigned long      curr_bytessofar;
    unsigned long      curr_files;

    active;
    local;
    remote;
    successful;

    total_files_expected;
    total_nb_expected;

    operation_type;
    operation_id;
    completed;
    status;

    struct EDMPROgress *next;

    char          host_name[HOSTNAME_SIZE];

};

struct EDMSCalc
{
    unsigned long      status;
    EDMPROgress      *wiprogress;
    WIPROgress;
};

```

```

{
    int      msgType;
    int      sourceModule;
    int      level;
    int      msgid;
    int      setting;

    struct SessionInfo
    {
        DD_client_session_id
        unsigned int
        unsigned long
        int
        long
        long
        int
        int
        int

        SessionInfo
        *next;

    };

    struct SessionBlock
    {
        struct SessionInfo
        int
        *sess;
        totalSessions;

    };

    program EDMP_DISPATCH_DEMON {

        version EDMD_FUNCTIONS {

            /* Functions for EDMS7T_initialize */
            DD_initialize_result dd_initialize( DD_initialize_args ) = 1;
            DD_getservicestatus_result dd_getservicestatus(
                DD_getservicestatus_args ) = 2;

            SessionBlock dd_getsessioninfo( DD_getservicestatus_args ) = 3;

        } = 1; /* This is version 1 */

        %/* This is the RPC program number.
           These are reserved in /pda/docs/RPC_numbers
           % * This number cannot be re-used by any other RPC demon on the machine,
           as it
           % * identifies this demon uniquely. If it were to be re-used, the last demon
           % * to register would be connected when RPC's come in for this number.
           % */
        % = 390015;
    };

```

```

%*
%* Copyright 1997,1998 EMC Corporation
%*

```

```

/*
** Leading & causes rprocn to pass a line directly thought to the output
** ie esahlink_aurpcc.h in this case. This allows the .h to make a little
** more sense and be properly documented.
*/

```

```

%/*
%* dispatch_daemon.x : EMC Dispatch Daemon C/S communication module
%*

```

```

%* Mission Statement: This is an RRCSEN file which defines the RPC interface
%* between the Dispatch Daemon (which resides on
%* the EMX server) and the backup client callers of its
%* routines. The Dispatch Daemon C/S RPC level calls that a
%* "caller" can make and the "service" will respond to.
%*

```

```

%* Primary Data Acted On: This defines the data that will flow over the wire.
%* The RPC mechanism will take care of data marshalling
%*

```

```

%*
%* Compile-Time Options: This actually gets run through RRCSEN not compiled. It
%* must be run through with the -h flag to create a
%* header, the -m flag to create the service side
%* routines, the -l flag to create the client side
%* routines, and the -c flag to create the common data
%* marshalling routines.
%*

```

```

%* Basic Idea here: Define the RPC level interfaces to the Dispatch Daemon
%* and all data types that will be passed via RPC.
%*
%*

```

```

#include <createc/dispatch_protocol.h>

```

```

/*
/* Constant Definitions
/*

```

```

/*
/* Data Structure Definitions
/*

```

```

/*
/* Program EDM_DISPATCH_PROTOCOL_CLIENT {
/* version EDMDRPC_FUNCTIONS {

```

```

int dp_connect_confirm( DP_connect_confirm_msg ) = 1;
int dp_abort_request( DP_abort_request_msg ) = 2;
int dp_abort_request_confirm( DP_abort_request_confirm_msg ) = 3;
int dp_data_request( DP_data_request_msg ) = 4;
int dp_data_request_confirm( DP_data_request_confirm_msg ) = 5;
int dp_progress_confirm( DP_progress_confirm_msg ) = 6;
int dp_final_stats_confirm( DP_final_stats_confirm_msg ) = 7;
} = 1; /* This is version 1 */

```

```

%/* This is the RPC program number.

```

```

%* This number cannot be re-used by any other RPC daemon on the machine.
These are reserved in /pda/docs/RPC_numbers

```

```

%* identifies this daemon uniquely. If it were to be re-used,
%* as it
%* to register would be contacted when RPC's come in for this number.
%/*
) = 389999;

```



```

*/
** Copyright 1997, 1998 EMC Corporation
*/

```

```

/*
** leading % causes progren to pass a line directly thought to the output,
** is edlink_sunrpc.h in this case. This allows the .h to make a little
** more sense and be properly documented.
*/

```

```

*/
* * dispatch_daemon.x : EDM Dispatch Daemon C/S communication module
*

```

```

* * Mission Statement: This is an RPCGEN file which defines the RPC interface
* * between the Dispatch Daemon (which resides on
* * the EDM server) and the backup client callers of its
* * (RPC) services. The Dispatch Daemon will respond to the
* * "caller" can make and the "service" will respond to.
*

```

```

* * Primary Data Acted On: This defines the data that will flow over the wire.
* * The RPC mechanism will take care of data
* * marshalling
*

```

```

* *
* * Compile-Time Options:
* * This actually gets run through RPCGEN not compiled. It
* * must be run through with the -h flag to create a
* * header, the -n flag to create the service side
* * routines, the -l flag to create the client side
* * routines, and the -c flag to create the common data
* * marshalling routines.
*

```

```

* * Basic Idea here:
* * Define the RPC level interfaces to the Dispatch Daemon
* * and all data types that will be passed via RPC.
* *
*/

```

```

#include <create_rpc/dispatch_protocol.h>

```

```

/*
** Constant Definitions
**
*/

```

```

/*
** Data Structure Definitions
**
*/

```

```

PROGRAM EDM_DISPATCH_PROTOCOL_SERVICE {
    version EDMOPS_FUNCTIONS {

```

```

        int dp_connect_indicate( DP_connect_indicate_msg ) = 1;
        int dp_abort_response( DP_abort_response_msg ) = 2;
        int dp_abort_request( DP_abort_request_msg ) = 3;
        int dp_data_response( DP_data_response_msg ) = 4;
        int dp_event_indicate( DP_event_indicate_msg ) = 5;
        int dp_progress_indicate( DP_progress_indicate_msg ) = 6;
        int dp_final_state_indicate( DP_final_state_indicate_msg ) = 7;
    } = 1; /* This is version 1 */
} = 399998;

```



```
        default :  
            void;  
    };  
  
    struct DP_event_indicate_msg {  
        DD_client_session_id sid;  
        uint32 EventNumber;  
        string EventText<>;  
        uint32 EventLevel;  
        DataParms parms;  
    };  
  
    struct DP_event_confirm_msg {  
        DD_client_session_id sid;  
    };  
  
    struct DP_progress_indicate_msg {  
        DD_client_session_id sid;  
        EDMSStats stats;  
    };  
  
    struct DP_progress_confirm_msg {  
        DD_client_session_id sid;  
        uint32 ack;  
    };  
  
    struct DP_final_stats_indicate_msg {  
        DD_client_session_id sid;  
        EDMSStats stats;  
    };  
  
    struct DP_final_stats_confirm_msg {  
        DD_client_session_id sid;  
        uint32 ack;  
    };  
};
```